

Serial No.: 10/066,738
Inventor(s): Ramesh Keshavaraj

US PTO Customer No. 25280
Case No.: 2102 REI



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Ramesh Keshavaraj
Serial Number: 10/066,738
Filed: February 4, 2002
For: **AIRBAG FABRIC POSSESSING VERY LOW COVER FACTOR**
Group Art Unit: 1771
Examiner: Singh, Arti R.

Commissioner for Patents
PO Box 1450
Alexandria VA 22313-1450

Sir:

Certificate of Express Mailing Under 37 CFR § 1.10	
I hereby certify that this correspondence, and all correspondence referenced herein is being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" with a Mailing Label Number listed below in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" with sufficient postage on the date listed below:	
Express Mail Label No.:	EL 982174027 US
Date:	September 15, 2004
Signature:	<i>Heidi M. Lewis</i>
Name:	Heidi M. Lewis

SUPPLEMENTAL AFFIDAVIT BY RAMESH KESHAVARAJ

1. My name is Ramesh Keshavaraj and I reside at 305 Grovewood Lane, Peachtree City, GA 30269.
2. I received a Bachelor of Science degree in Chemical Engineering from C.I.T. in India, a Master's degree in Chemical Engineering from The Texas Technological University in Lubbock, Texas, and a Doctorate in Chemical Engineering from The Texas Technological University, in Lubbock, Texas.
3. For the last eight (8) years I have been employed by Milliken & Company headquartered in Spartanburg, South Carolina, with my employment located in LaGrange, Georgia.
4. My experience in the textile industry has been devoted to the research, design and processing of airbag fabrics and airbag cushion products. My current position with Milliken & Company is as a Development Manager.
5. For the last eight (8) years with Milliken & Company, my work has primarily focused on the development of fabrics and cushion products for airbag uses within automobiles.
6. I am familiar with the above-referenced patent application as Applicant as well as United States Patent No. 6,291,040 ("the '040 patent"). I am also familiar with the fabrics manufactured by Toray Industries, the assignee of the '040 patent, and have obtained samples of fabrics made in accordance with that patent. Specifically, I obtained an example of the Toray fabric as follows: a commercially available fabric manufactured in accordance with the '040 patent having a cover factor of 1885, with 420 denier nylon 6,6 yarns and a thread count of 46 X 46 threads per inch in both the warp and weft directions and an approximately 5 μ m thick coating of what is believed to be an anionic ionomer type polyester based urethane resin (from the examples of the '040 patent). I tested that fabric made according to the '040 patent, and it had an air permeability of 11 cc/sq. cm /sec. I also tested a fabric made according to the invention claimed in this pending

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application using the test method outlined in the '040 patent. Airpermeability of the fabric was tested per the reported method of Moriwaki et al (cc/cm²/sec at 0.2 Kg/cm³ pressure drop.) Air permeability is zero on a fabric of the construction claimed by the Assignee under the conditions disclosed in the '040 patent.

7. Thus, in my opinion, the '040 patent fails to teach the same airbag fabric as in my currently claimed invention. Such results show the lack of anticipation of my claimed invention in comparison with the '040 patent teachings. Not only does the '040 patent fail to teach low air permeability fabrics of the variety claimed, but it also fails to disclose or suggest a fabric with a cover factor on the order claimed in my application.
8. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or any patent issuing thereon.



Ramesh Keshavaraj